What is claimed is:

- 1. A light chain of a botulinum toxin having a modified terminal end.
- 2. The light chain of claim 1 wherein the modified terminal end is an N-terminus.
- 3. The light chain of claim 1 wherein the modified terminal end is an N-terminus, and wherein the botulinum toxin is a botulinum toxin type A.
- 4. The light chain of claim 2 or 3 wherein at least one of the amino acids of the first 30 amino acids at the N-terminus of the light chain is substituted, mutated or deleted.
- 5. The light chain of claim 2 or 3 wherein at least one of the amino acids of the first 20 amino acids at the N-terminus of the light chain is substituted, mutated or deleted.
- 6. The light chain of claim 2 or 3 wherein at least one of the amino acids of the first 8 amino acids at the N-terminus of the light chain is substituted, mutated or deleted.
- 7. The light chain of claim 1 wherein the modified terminal end is an C-terminus.
- 8. The light chain of claim 1 wherein the modified terminal end is an C-terminus, and wherein the botulinum toxin is a botulinum toxin type A.
- 9. The light chain of claim 7 or 8 wherein at least one of the amino acids of the last 50 amino acids at the C-terminus of the light chain is substituted, mutated or deleted.

- 10. The light chain of claim 7 or 8 wherein at least one of the amino acids of the last 30 amino acids at the C-terminus of the light chain is substituted, mutated or deleted.
- 11. The light chain of claim 7 or 8 wherein at least one of the amino acids of the last 22 amino acids at the C-terminus of the light chain is substituted, mutated or deleted.
 - 12. A botulinum toxin comprising a light chain of any of claims 1, 2, 3, or 7.
 - 13. A botulinum toxin comprising a light chain of claim 4.
 - 14. A botulinum toxin comprising a light chain of claim 5.
 - 15. A botulinum toxin comprising a light chain of claim 6.
 - 16. A botulinum toxin comprising a light chain of claim 9.
 - 17. A botulinum toxin comprising a light chain of claim 10.
 - 18. A botulinum toxin comprising a light chain of claim 11.
- 19. A method of decreasing an enzymatic activity and/or decreasing a biological persistence of a botulinum toxin, said method comprises modifying a terminal end of a light chain.
- 20. The method of claim 19 wherein the C-terminal end of the light chain is modified.

- 21. The method of claim 20 wherein at least one of the amino acids of the last 50 amino acids at the C-terminal end of the light chain is substituted, mutated or deleted.
- 22. The method of claim 20 wherein at least one of the amino acids of the last 30 amino acids at the C-terminal end of the light chain is substituted, mutated or deleted.
- 23. The method of claim 20 wherein at least one of the amino acids of the last 22 amino acids at the C-terminal end of the light chain is substituted, mutated or deleted.
- 24. The method of claim 20 wherein the C-terminal end of the light chain of a botulinum toxin type B, C1, D, E, F or G is replaced by a C-terminal end of the light chain of botulinum toxin type A.
- 25. The method of claim 19 wherein the N-terminal end of the light chain is modified.
- 26. The method of claim 19 wherein at least one of the amino acids of the first 30 amino acids at the N-terminal end of the light chain is substituted, mutated or deleted.
- 27. The method of claim 19 wherein at least one of the amino acids of the first 20 amino acids at the N-terminal end of the light chain is substituted, mutated or deleted.
- 28. The method of claim 19 wherein at least one of the amino acids of the first 8 amino acids at the N-terminal end of the light chain is substituted, mutated or deleted.

- 29. The method of claim 19 wherein the N-terminal end of the light chain of a botulinum toxin type B, C1, D, E, F or G is replaced by an N-terminal end of the light chain of botulinum toxin type A.
- 30. A light chain of a botulinum toxin type B, C1, D, E, F or G comprising about the last 50 amino acids at a C-terminus of the light chain of botulinum toxin type A.
- 31. The light chain of claim 30 wherein the light chain comprises about the last 30 amino acids at the C-terminus of the light chain of botulinum toxin type A.
- 32. The light chain of claim 30 wherein the light chain comprises about the last 22 amino acids at the C-terminus of the light chain of botulinum toxin type A.
- 33. The light chain of claim 30 wherein the inclusion of about 50 amino acids from the C-terminus of the light chain of type A replaces one or more amino acids at the C-terminus of the light chain of botulinum toxin type B, C1, D, E, F or G.
- 34. A light chain of a botulinum toxin B, C1, D, E, F or G comprising about the first 30 amino acids at the N-terminus of the light chain of botulinum toxin type A.
- 35. The light chain of claim 34 wherein the light chain comprises about the first 20 amino acids at the N-terminus of the light chain of botulinum toxin type A.
- 36. The light chain of claim 34 wherein the light chain comprises about the first 8 amino acids at the N-terminus of the light chain of botulinum toxin type A.

- 37. The light chain of claim 34 wherein the inclusion of the 30 amino acids from the N-terminus of the light chain of type A replaces one or more amino acids at the N-terminus of the light chain of botulinum toxin type B, C1, D, E, F or G.
- 38. A light chain of a botulinum toxin B, C1, D, E, F or G comprising about the first 30 amino acids from the N-terminus of the light chain of botulinum toxin type A and about the last 50 amino acids from the C-terminus of the light chain of botulinum toxin type A.
- 39. The light chain of claim 38 wherein the light chain comprises about the first 20 amino acids from the N-terminus of the light chain of botulinum toxin type A and about the last 30 amino acids from the C-terminus of the light chain of botulinum toxin type A.
- 40. The light chain of claim 38 wherein the light chain comprises about the first 4 to 8 amino acids from the N-terminus of the light chain of botulinum toxin type A and about the last 7 to 22 amino acids from the C-terminus of the light chain of botulinum toxin type A.
- 41. The light chain of claim 38 wherein the inclusion of about the 30 amino acids from the N-terminus and about the 50 amino acids from the C-terminus of the light chain of type A replaces one or more amino acids at the N- and C-termini, respectively, of the light chain of botulinum toxin type B, C1, D, E, F or G.
- 42. The light chain of claim 39 wherein the inclusion of about the 20 amino acids from the N-terminus and about the 30 amino acids from the C-terminus of the light chain of type A replaces one or more amino acids at the N- and C-termini, respectively, of the light chain of botulinum toxin type B, C1, D, E, F or G.
- 43. The light chain of claim 39 wherein the inclusion of about the 4 to 8 amino acids from the N-terminus and about the 7 to 22 amino acids from the C-

terminus of the light chain of type A replaces one or more amino acids at the N- and C-termini, respectively, of the light chain of botulinum toxin type B, C1, D, E, F or G.

44. A botulinum toxin comprising the light chain of any of claims 30-43.